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AMENDMENTS TO THE CLAIMS

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Please incorporate the following amendments to the subject application.

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In the Claims:

- 1. (Currently Amended) A method of detecting the presence of depurination reaction products on a surface of an in situ produced nucleic acid array, said method comprising:
 - (a) contacting an in situ produced nucleic acid array that includes at least one depurination probe feature [of] having a depurination probe with a sample comprising a target nucleic acid that specifically binds to said depurination probe; and
 - detecting the amount of resultant binding complexes in said depurination probe feature to determine the presence of depurination reaction products on said surface.
- 2. (Original) The method according to Claim 1, wherein said method is a method of determining the amount of depurination reaction products on said surface.
- 3. (Original) The method according to Claim 2, wherein said amount is a relative amount.
- 4. (Original) The method according to Claim 1, wherein said target nucleic acid is labeled and said detecting comprising detecting a signal from said depurination probe feature.
- 5. (Original) The method according to Claim 4, wherein said label is fluorescent and said signal is a fluorescent signal.

- 6. (Original) The method according to Claim 5, wherein said fluorescent signal has an intensity that is inversely proportional to the amount of depurination reaction products in said depurination probe feature.
- 7. (Original) The method according to Claim 1, wherein said array includes two or more different depurination probe features each corresponding to a distinct depurination probe.
- 8. (Original) The method according to Claim 7, wherein said array includes at least one early depurination probe feature and at least one late depurination probe feature.
- 9. (Original) The method according to Claim 1, wherein said array includes two or more identical depurination probe features whose synthesis was started at different times.
- 10. (Original) The method according to Claim 1, wherein said depurination probe has a known deblock dose.
- 11. (Original) The method according to Claim 1, wherein said method further comprises evaluating the level of depurination that occurred during in situ fabrication of said array.
- 12. (Original) The method according to Claim 11, wherein said method is a method of evaluating the quality of an in situ nucleic acid array synthesis fabrication protocol.
- 13. (Original) The method according to Claim 12, wherein said method is employed to evaluate the quality of a plurality of nucleic acid arrays fabricated according to said protocol.
- 14. (Withdrawn) An array comprising a set of two or more nucleic acid depurination features.

- 15. (Withdrawn) The array according to Claim 14, wherein each member of said set comprises probes having identical probe hybridization domains and different tether domains.
- 16. (Withdrawn) The array according to Claim 15, wherein said different tether domains are polyA domains of differing length.
- 17. (Withdrawn) The array according to Claim 16, wherein said polyA domains range from about 1 to about 35 nt in length.
- 18. (Withdrawn) The array according to Claim 14, wherein said nucleic acid depurination probes of said set are immobilized on a surface of a solid support.
- 19. (Withdrawn) The array according to Claim 14, wherein said set includes both early and late depurination features.
- 20. (Withdrawn) The array according to Claim 14, wherein said set comprises a collection of staggered start depurination probes.
- 21. (Currently Amended) A method of detecting the presence of a nucleic acid analyte in a sample, said method comprising:
 - (a) contacting a nucleic acid array according to Claim 14

 comprising a set of two or more nucleic acid depurination features each

 having a depurination probe and having a nucleic acid ligand that

 specifically binds to said nucleic acid analyte with a sample suspected of

 comprising said analyte under conditions sufficient for binding of said analyte

 to said nucleic acid ligand on said array to occur, and
 - (b) detecting the presence of binding complexes on the surface of said array to detect the presence of said nucleic acid analyte in said sample.

- 22. (Previously Presented) The method according to Claim 21, wherein said sample comprises a collection of labeled target nucleic acids that specifically bind to said nucleic acid depurination features.
- 23. (Original) A method comprising transmitting a result from a reading of an array according to the method of Claim 21 from a first location to a second location.
- 24. (Original) The method according to Claim 23, wherein said second location is a remote location.
- 25. (Original) A method comprising receiving a transmitted result of a reading of an array obtained according to the method Claim 21.
- 26. (Withdrawn) A kit for use in a nucleic acid analyte detection assay, said kit comprising:

an array according to Claim 14.

- 27. (Withdrawn) The kit according to Claim 26, wherein said kit further comprises labeled target nucleic acids that specifically bind to said depurination probe nucleic acids.
- 28. (Withdrawn) A computer-readable medium having recorded thereon a program that determines the presence of depurination reaction products in a nucleic acid array from a signal observed from a depurination probe feature of said array.